ADDITIONAL DEVELOPMET WORKS AT DODDABETTAHALLI GOVT. SCHOOL IN ATTUR WARD No. 03

EMB

(Pre-Measurement Sheet and Measurement Sheet)

First and Final Bill

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE PROJECT: Additional Developmet works at Doddabettahalli Govt. school in Attur Ward No. 03

PREMEASUREMENT SHEET

First & Final Bill

Client	**Sri T S Kothanda Raju(Proprietor R K CONSTRUCTIONS, Proprietor SHREE CHARAN CONSTRUCTIONS) No:05, Sree Sri Nivas Bagath Enclave, Kattigenahalli village, Yelahanka post, Bangalore-560064**

Chainage in m		Description of Item	Unit	No	L	B	D	Qty	Remarks
From	To								
Item No 01		Excavation 1.5m and above in width in hard rock by chiselling and / or wedging, where blasting is prohibited for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5 m. in depth stacking the excavated stuff clear from the edge of excavation with lead upto 50m including cost of labour as per specifications. complete as per specifications and directions of Engineer in charge.							
Measurements taken on		15/01/2022							
		SSM Footing							
		Corridor(along longer direction)	Cum	1	30.65	0.90	0.90	24.83	
		Corridor(along shorter direction)	Cum	1	14.40	0.90	0.90	11.66	
							Total Executed Quantity	36.49	
							Qty Carried to Summary	36.49	

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ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾ
ಬಿ.ಬ.ಪಾ.ಪ. ಬೆಂಗಳೂರು-10

Contractor

Assistant Engineer

Chainage in m	Description of Item	Unit	No	L	B	D	Qty	Remarks
Item No 02	Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications and directions of Engineer in charge.							
Measurements taken on	18/01/2022							
	Footings							
	Corridor(along longer direction)	Cum	1	30.65	0.90	0.15	4.14	
	Corridor(along shorter direction)	Cum	1	14.40	0.90	0.15	1.94	
	Corrridor sides	Cum	1	1.20	0.90	0.15	0.16	
	Corrridor sides	Cum	1	1.20	0.90	0.15	0.16	
	Steps							
	First step	Cum	3	3.00	0.60	0.15	0.81	
	Second step	Cum	3	3.00	0.30	0.15	0.41	
						Total Executed Quantity	7.62	
						Qty Carried to Summary	7.62	

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Contractor

Chainage in m	Description of Item	Unit	No	L	B	D	Qty	Remarks
Item No 03	Providing and laying in position plain cement concrete of mix M15 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications and directions of Engineer in charge.							
Measurements taken on	21/01/2022							
	SSM Footing							
	Corridor(along longer direction)	Cum	1	30.65	0.60	0.15	2.76	
	Corridor(along shorter direction)	Cum	1	14.40	0.60	0.15	1.30	
	Corrridor sides	Cum	1	1.20	0.60	0.15	0.11	
	Corrridor sides	Cum	1	1.20	0.60	0.15	0.11	
	Above SSM							
	Plinth Area							
		Cum	1	37.50	0.90	0.15	5.06	
		Cum	1	14.00	0.90	0.15	1.89	
						Total Executed Quantity	**11.22**	
						Qty Carried to Summary	**11.22**	

Contractor

Chainage in m	Description of Item	Unit	No	L	B	D	Qty	Remarks
Item No 4	Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerddressed in courses not less than 20 cms high, bond stones at 2m apart in each course including cost of materials, labour, curing complete as per specifications and directions of Engineer in charge.							
Measurements taken on	28/01/2022							
	SSM Footing							
	Corridor(along longer direction)	Cum	1	30.65	0.60	0.60	11.03	
	Corridor(along shorter direction)	Cum	1	14.40	0.60	0.60	5.18	
	Corrridor sides	Cum	1	1.20	0.60	0.60	0.43	
	Corrridor sides	Cum	1	1.20	0.60	0.60	0.43	
						Total Executed Quantity	17.08	
						Qty Carried to Summary	17.08	

C&R

Contractor

Chainage in m	Description of Item	Unit	No	L	B	D	Qty	Remarks
Item No 8	Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per specifications and directions of							
Measurements taken on	02/02/2022							
	Excavated Earth	Cum	From Item No:01				36.49	
	Filling Available of Excavated Earth	Cum	From Item No:11				-13.00	
	Total Executed Quantity						23.49	
	Qty Carried to Summary						23.49	

Contractor

Chainage in m	Description of Item	Unit	No	L	B	D	Qty	Remarks
Item No 09	Providing and removing centering, shuttering, strutting, propping etc. and Removal of form Work for columns, pillars, piers, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specifications and directions of Engineer in charge.							
Measurements taken on	04/02/2022							
	First Floor							
	Column upto beam bottom							
	C1	Sqm	8	1.50		3.15	37.80	
	C2	Sqm	10	1.50		3.15	47.25	
						Total Executed Quantity	**85.05**	
						Qty Carried to Summary	**85.05**	

Contractor

Assistant Engineer

Assistant Executive Engineer

Chainage in m	Description of Item	Unit	No	L	B	D	Qty	Remarks
Item No 10	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs. complete as per specifications and directions of Engineer in charge.							
Measurements taken on	02/03/2022							
	First Floor							
	Slab(along long direction)	Sqm	1	30.60	7.50		229.50	
	Deductions							
	Stair case	Sqm	-1	4.90	1.65		-8.09	
	Total Executed Quantity						221.42	
	Qty Carried to Summary						221.42	

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Contractor

Assistant Engineer

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Chainage in m	Description of Item	Unit	No	L	B	D	Qty	Remarks
Item No 12	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specifications and directions of Engineer in charge.							
Measurements taken on	21/02/2022							
	Ground Floor							
	Lintels							
	Through Lintel(along long wall)	Sqm	4	34.80		0.15	20.88	
	Bottom(windows)	Sqm	8	1.50	0.15		1.80	
	Bottom(Doors)	Sqm	2	1.20	0.15		0.36	
	Through Lintel(along short wall)	Sqm	4	13.10		0.20	10.48	
	Bottom(windows)	Sqm	16	1.50	0.20		4.80	
	Bottom(Doors)	Sqm	4	1.20	0.15		0.72	
	First Floor							
	Along long direction							
	B2	Sqm	4	29.00		0.30	34.80	
	Corridor beam(B2)	Sqm	2	30.60		0.30	18.36	
	Along Short direction							
	B3	Sqm	18	6.60		0.30	35.64	
	Lintels							
	Through Lintel(along long wall)	Sqm	4	34.80		0.15	20.88	
	Bottom(windows)	Sqm	8	1.50	0.15		1.80	
	Bottom(Doors)	Sqm	2	1.20	0.15		0.36	
	Through Lintel(along short wall)	Sqm	4	13.10		0.20	10.48	
	Bottom(windows)	Sqm	16	1.50	0.20		4.80	
	Bottom(Doors)	Sqm	4	1.20	0.15		0.72	
						Total Executed Quantity	**166.88**	
						Qty Carried to Summary	**166.88**	

21/02/2022

Contractor

Assistant Engineer

Assistant Executive Engineer

Chainage in m	Description of Item	Unit	No	L	B	D	Qty	Remarks
Item No 21	Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and directions of Engineer in charge.First Floor							
Measurements taken on	03/02/2022							
	Column	tonne		From Steel Calculation			1.93	
	Stair case	tonne		From Steel Calculation			0.31	
	Lintels	tonne		From Steel Calculation			0.32	
	Beams	tonne		From Steel Calculation			2.43	
	Roof slab	tonne		From Steel Calculation			2.16	
	Chejja	tonne		From Steel Calculation			0.10	
						Total Executed Quantity	7.25	
						Qty Carried to Summary	7.25	

Contractor

Assistant Engineer

Executive Engineer

Chainage in m	Description of Item	Unit	No	L	B	D	Qty	Remarks
Item No 44	Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner topping , under layer of 35mm thick m-15 cement concrete using broken granite metal of 20mm and down size, and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt) , including finishing cost of materials, labour, curing. Complete as per specifications and directions of the Engineer-in -charge. First floor.							
Measurements taken on	01/04/2022							
	First Floor							
	Classroom(along long direction)	Sqm	4	7.00	5.50		154.00	
	Classroom(along short direction)	Sqm	2	7.00	5.50		77.00	
	Corridor	Sqm	1	31.90	1.50		47.85	
	Corridor near toilet	Sqm	1	5.70	1.30		7.41	
	Corridor(along shorter direction)	Sqm	1	14.30	1.50		21.45	
	Gents toilet	Sqm	1	5.60	5.50		30.80	
						Total Executed Quantity	338.51	
						Qty Carried to Summary	338.51	

Contractor

Assistant Engineer

Assistant Executive Engineer

NAME OF THE PROJECT: Additional Developmet works at Doddabettahalli Govt. school in Attur Ward No. 03

Client	Sri T S Kothanda Raju(Proprietor R K CONSTRUCTIONS, Proprietor SHREE CHARAN CONSTRUCTIONS) No:05, Sree Sri Nivas Bagath Enclave, Kattigenahalli village, Yelahanka post, Bangalore-560064
Description	Steel calculation sheet

PREMEASUREMENT SHEET

First & Final Bill

Chainage		Description	Nos	BAR DIA	No. Bars	Total No. bars	L	Crank length (42d)	Actual Length	Total Length	Weight	Total weight
				mm			m	m	m	m	kg/m	Kg's
From	To											
Item no. 20		Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications and directions of Engineer in charge. Ground Floor										
Measurements taken on		21/02/2022										
		Lintel Beam										
		Along Longer Direction	2									
		top bars		8	2	4	35.10	0.00	35.10	140.40	0.39	55.40
		bottom bars		10	2	4	34.80	0.00	34.80	139.20	0.62	85.82
		2L-#8mm @150c/c stirrups		8	146	292	0.70	0.00	0.70	204.40	0.39	80.65
		Along shorter Direction	2									
		top bars		8	2	4	13.40	0.00	13.40	53.60	0.39	21.15
		bottom bars		10	2	4	13.10	0.00	13.10	52.40	0.62	32.31
		2L-#8mm @150c/c stirrups		8	61	121	0.70	0.00	0.70	84.76	0.39	33.45
										Sub Total		308.78
		Chejja	12									
		top bars #8 @ 130c/c		8	12	138	1.15	0.00	1.15	159.23	0.39	62.03
		bottom bars #8 @250 c/c		8	5	55	1.50	0.00	1.50	82.80	0.39	32.67
										Sub Total		95.50
											Total Steel quantity in kg	404.28
											Total Steel Quantity in tonne	0.40

CONTRACTOR

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

NAME OF THE PROJECT: Additional Developmet works at Doddabettahalli Govt. school in Attur Ward No. 03	
Client	Sri T S Kothanda Raju(Proprietor R K CONSTRUCTIONS, Proprietor SHREE CHARAN CONSTRUCTIONS) No:05, Sree Sri Nivas Bagath Enclave, Kattigenahalli village, Yelahanka post, Bangalore-560064
Description	Steel calculation sheet

PREMEASUREMENT SHEET

First & Final Bill

Chainage		Description	Nos	BAR DIA	No. Bars	Total No. bars	L	Crank length (42d)	Actual Length	Total Length	Weight	Total weight
				mm			m	m	m	m	kg/m	Kg's
From	To											
		10# @100 c/c main bars alt	1	10	38	38	29.00	0.00	29.00	1087.50	0.62	670.48
		10# @100 c/c crank bars alt	1	10	38	38	29.00	1.68	30.68	1150.50	0.62	709.33
		10# @200 c/c distribution	1	8	145	145	7.50	0.00	7.50	1087.50	0.39	429.11
		12# @ 200 C/C EXTRA at top	1	10	38	38	15.40	0.00	15.40	577.50	0.62	356.05
										Sub Total		3164.97
											Total Steel quantity in kg	7254.73
											Total Steel Quantity in tonne	7.25

CONTRACTOR

ASSISTANT ENGINEER

ASSISTANT EXECUTIVE ENGINEER

ADDITIONAL DEVELOPMET WORKS AT DODDABETTAHALLI GOVT. SCHOOL IN ATTUR WARD No. 03

EMB

First and Final Bill

Measurement Sheet

BRUHAT BANGALORE MAHANAGARA PALIKE

NAME OF THE PROJECT: Additional Developmet works at Doddabettahalli Govt. school in Attur Ward No. 03

MEASUREMENT SHEET

First & Final Bill

Client: Sri T S Kothanda Raju(Proprietor R K CONSTRUCTIONS, Proprietor SHREE CHARAN CONSTRUCTIONS) No:05, Sree Sri Nivas Bagath Enclave, Kattigenahalli village, Yelahanka post, Bangalore-560064

Chainage in m From	To	Description of Item	Unit	No	Length (m)	Breadt (m)	Depth (m)	Quantity	Rate Rs	Amount Rs	Remarks
Item No 1		Excavation 1.5m and above in width in hard rock by chiselling and / or wedging, where blasting is prohibited for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5 m. in depth stacking the excavated stuff clear from the edge of excavation with lead upto 50m including cost of labour. Complete as per specifications and directions of the Engineer-in -charge.									
			Cum								
		Vide Total executed Quantity from premeasurement Page no.						36.49			
		Total Executed Quantity						36.49			
		Schedule B Quantity						36.49			
		Now To be Paid Qty						36.49	2313.42	84417.85	
Item No 2		Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing. Complete as per specifications and directions of the Engineer-in -charge.									
			Cum								
		Vide Total executed Quantity from premeasurement Page no.						7.62			
		Total Executed Quantity						7.62			
		Schedule B Quantity						7.62			
		Now To be Paid Qty						7.62	6203.05	47271.89	
Item No 3		Providing and laying in position plain cement concrete of mix M15 with cement @ 240kgs, with 20mm and down size graded granite metal coarse aggregates @0.878cum and fine aggregtes @ 0.53cum, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation,plinth and cills, including cost of all materials, labour, HOM of machinery, curing. Complete as per specifications and directions of the Engineer-in -charge.									
			Cum								
		Vide Total executed Quantity from premeasurement Page no.						11.22			
		Total Executed Quantity						11.22			
		Schedule B Quantity						11.22			
		Now To be Paid Qty						11.22	6706.56	75267.72	

Contractor

Assistant Engineer

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ಜಿ.ಬಿ.ಎ.ಎ. ಬೆಂಗಳೂರು-106
Assistant Executive Engineer

Item No 4	Providing and constructing granite / trap / basalt size stone masonry in foundation cement mortar 1:6, stone hammerddressed in courses not less than 20 cms high, bond stones at 2m apart in each course including cost of materials, labour, curing. Complete as per specifications and directions of the Engineer-in -charge.									
		Cum								
	Vide Total executed Quantity from premeasurement Page no.						**17.08**			
	Total Executed Quantity						**17.08**			
	Schedule B Quantity						**17.08**			
	Now To be Paid Qty						**17.08**	**5206.90**	**88944.27**	
Item No 5	Providing and constructing granite / trap / basalt size stone masonry in superstructure with cement mortar 1:4 , edges of stones chistle dressed in courses not less than 15 cms high, bond stones at two m. apart in each course including cost of materials, labour, scaffolding, curing. Complete as per specifications and directions of the Engineer-in -charge.									
Measurements taken on										
	Above GL									
	Corridor(along longer	Cum	1	30.65	0.60	0.45	8.28			
	Corridor(along shorter	Cum	1	14.40	0.60	0.45	3.89			
	Corrridor sides	Cum	1	1.20	0.60	0.45	0.32			
	Corrridor sides	Cum	1	1.20	0.60	0.45	0.32			
	Total Executed Quantity						**12.81**			
	Schedule B Quantity						**12.81**			
	Now To be Paid Qty						**12.81**	**6803.18**	**87158.94**	
Item No 06	Providing ruled pointing to coursed stone masonry with cement mortar 1:3, 20mm deep, after raking joints to depth of 20mm nicely lining, including cost of materials, labour, curing. Complete as per specifications and directions of the Engineer-in -charge.									
Measurements taken on										
	Above GL									
	Corridor(along longer	Cum	1	30.65		0.45	13.79			
	Corridor(along shorter	Cum	1	14.40		0.45	6.48			
	Corrridor sides	Cum	1	1.20		0.45	0.54			
	Corrridor sides	Cum	1	1.20		0.45	0.54			
	Total Executed Quantity						**21.35**			
	Schedule B Quantity						**21.35**			
	Now To be Paid Qty						**21.35**	**160.87**	**3434.98**	
Item No 07	Filling available excavated earth(excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour. Complete as per specifications and directions of the Engineer-in -charge.									
		Cum								
	Vide Total executed Quantity from premeasurement Page no.						**13.00**			
	Total Executed Quantity						**13.00**			
	Schedule B Quantity						**13.00**			
	Now To be Paid Qty						**13.00**	**227.72**	**2960.99**	

Contractor

Assistant Executive

Item No 08	Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., Complete as per specifications and directions of the Engineer-in -charge.					
	Cum					
	Vide Total executed Quantity from premeasurement Page no.	**23.49**				
	Total Executed Quantity	**23.49**				
	Schedule B Quantity	**23.49**				
	Now To be Paid Qty	**23.49**	**70.38**	**1653.07**		
Item No 09	Providing and removing centering, shuttering, strutting, propping etc. and Removal of form Work for columns, pillars, piers, post and struts, square / rectangular / polygon in plan including cost of all materials, labour Complete as per specifications and directions of the Engineer-in -charge.					
	Sqm					
	Vide Total executed Quantity from premeasurement Page no.	**85.05**				
	Total Executed Quantity	**85.05**				
	Schedule B Quantity	**85.05**				
	Now To be Paid Qty	**85.05**	**516.61**	**43937.68**		
Item No 10	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs. Complete as per specifications and directions of the Engineer-in -charge.					
	Sqm					
	Vide Total executed Quantity from premeasurement Page no.	**221.42**				
	Total Executed Quantity	**221.42**				
	Schedule B Quantity	**221.42**				
	Now To be Paid Qty	**221.42**	**453.17**	**100338.64**		
Item No 11	Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floors including cost of all materials,labour Complete as per specifications and directions of the Engineer-in -charge.					
	Cum					
	Vide Total executed Quantity from premeasurement Page no.	**11.43**				
	Total Executed Quantity	**11.43**				
	Schedule B Quantity	**11.43**				
	Now To be Paid Qty	**11.43**	**855.35**	**9776.65**		
Item No 12	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour. Complete as per specifications and directions of the Engineer-in -charge.					
	Cum					
	Vide Total executed Quantity from premeasurement Page no.	**166.88**				
	Total Executed Quantity	**166.88**				
	Schedule B Quantity	**166.88**				
	Now To be Paid Qty	**166.88**	**330.81**	**55205.57**		

Contractor

Assistant Engineer

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Assistant Executive Engineer
ಬೆಂಗಳೂರು-106

Item No 13	Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour. Complete as per specifications and directions of the Engineer-in -charge.									
		Sqm								
	Vide Total executed Quantity from premeasurement Page no.						**29.70**			
	Total Executed Quantity						**29.70**			
	Schedule B Quantity						**29.70**			
	Now To be Paid Qty						**29.70**	**589.12**	**17499.52**	
Item No 14	Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc. , including edges including cost of all materials, labour Complete as per specifications and directions of the Engineer-in -charge.									
		Sqm								
	Vide Total executed Quantity from premeasurement Page no.						**28.08**			
	Total Executed Quantity						**28.08**			
	Schedule B Quantity						**28.08**			
	Now To be Paid Qty						**28.08**	**365.93**	**10275.31**	
Item No 15	Providing and laying in position reinforced cementconcrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum andfine aggregtes @ 0.47cum,with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated fo all works in ground Floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thivck ness) including attached plasters ,columns, pillars,posts,struts.butters,string or lacing courses ,parapets,coping,bed blocks,anchor blocks ,plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing. Complete as per specifications and directions of the Engineer-in -charge. Ground Floor									
Measurements taken on										
	Ground Floor									
	Lintels									
	Through Lintel(along long wall)	Cum	2	34.80	0.20	0.15	2.09			
	Through Lintel(along short wall)	Cum	2	13.10	0.20	0.15	0.79			
	Total Executed Quantity						**2.87**			
	Schedule B Quantity						**2.87**			
	Now To be Paid Qty						**2.87**	**7660.51**	**21978.37**	
Item No 16	Providing and laying in position reinforced cementconcrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum andfine aggregtes @ 0.47cum,with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated fo all works in ground Floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thivck ness) including attached plasters ,columns, pillars,posts,struts.butters,string or lacing courses ,parapets,coping,bed blocks,anchor blocks ,plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing. Complete as per specifications and directions of the Engineer-in -charge. First Floor									
Measurements taken on										
	First Floor									
	Column upto beam bottom									
	C1	Cum	8	0.45	0.30	3.15	3.40			
	C2	Cum	10	0.45	0.30	3.15	4.25			

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ.
ಜೆ.ಜೆ.ಎ.ಪಿ. ಬೆಂಗಳೂರು-106

	Stair case									
	Waist slab(Flight 1)	Cum	1	4.09	1.50	0.15	0.92			
	Waist slab(Flight 2)	Cum	1	3.75	1.50	0.15	0.84			
	Landing	Cum	1	3.15	1.30	0.15	0.61			
	Riser and treads	Cum	24	1.50		0.02	0.81			
		Triangular area =0.5*0.3*0.15=0.023								
	SB1	Cum	1	3.15	0.30	0.30	0.28			
	Lintels									
	Through Lintel(along long wall)	Cum	2	34.80	0.20	0.15	2.09			
	Through Lintel(along short wall)	Cum	2	13.10	0.20	0.15	0.79			
						Total Executed Quantity	**14.00**			
						Schedule B Quantity	**14.00**			
						Now To be Paid Qty	**14.00**	**7715.29**	**108015.99**	

Item No 17 — Providing and laying cement concrete using 20 mm and down size granite coarse aggregates and fine aggregates of ready mixed concrete (RMC) for R.C.C works laid in 15 cms thick layers and well compacted including vibrating, curing, etc for all super Structure works with all lead and Lift etc., complete (exclusive of cost of steel and fabrication charges) Ready mixed cement for concrete with M-25. Complete as per specifications and directions of the Engineer-in -charge. First Floor

Measurements taken on										
	First Floor									
	Slab(along long direction)	Cum	1	30.60	7.50	0.15	34.43			
	Deductions									
	Stair case	Cum	-1	4.90	1.65	0.15	-1.21			
	Beams									
	Along long direction									
	B2	Cum	2	29.00	0.20	0.30	3.48			
	Corridor beam(B2)	Cum	1	30.60	0.20	0.30	1.84			
	Along Short direction									
	B3	Cum	9	6.60	0.30	0.30	5.35			
						Total Executed Quantity	**43.87**			
						Schedule B Quantity	**43.87**			
						Now To be Paid Qty	**43.87**	**7026.47**	**308281.10**	

Item No 18 — Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.5865cum and fine aggregtes @ 0.391cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 8.5 cms. average thickness, upto First Floor level, including cost of all materials, labour, HOM of machinery, finishing, curing . Complete as per specifications and directions of the Engineer-in -charge. Ground Floor.

Measurements taken on										
	Ground Floor									
	Chejja	Sqm	12	1.50	0.60		10.80			
						Total Executed Quantity	**10.80**			
						Schedule B Quantity	**10.80**			
						Now To be Paid Qty	**10.80**	**561.93**	**6068.84**	

	W1	Sqm	-24	1.50		1.50	-54.00			
	V	Sqm	-5	0.60		0.75	-2.25			
	Lintels									
	Through Lintel(along long wall)	Sqm	-2	34.80		0.15	-10.44			
	Through Lintel(along short wall)	Sqm	-2	13.10		0.15	-3.93			
						Total Executed Quantity	330.51			
						Schedule B Quantity	330.51			
						Now To be Paid Qty	330.51	1033.22	341489.54	

Item No 23	Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc. Complete as per specifications and directions of the Engineer-in -charge. First Floor
Measurements taken on	

	First Floor									
	Walls									
	Along long direction	Sqm	1	34.80		3.00	104.40			
		Sqm	1	26.30		3.00	78.90			
		Sqm	3	5.00		3.00	45.00			
	Along Short direction	Sqm	1	19.55		3.00	58.65			
		Sqm		13.10		3.00	39.30			
		Sqm	6	5.00		3.00	90.00			
	Deductions									
	D1	Sqm	-8	1.20		2.10	-15.12			
	W1	Sqm	-24	1.50		1.50	-54.00			
	V	Sqm	-5	0.60		0.75	-2.25			
	Lintels									
	Through Lintel(along long wall)	Sqm	-2	34.80		0.15	-10.44			
	Through Lintel(along short wall)	Sqm	-2	13.10		0.15	-3.93			
						Total Executed Quantity	330.51			
						Schedule B Quantity	330.51			
						Now To be Paid Qty	330.51	1072.88	354597.57	

Item No 24	Providing and constructing non-load bearing wall with solid concrete blocks of size 400X100X200 having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to I.S : 2185 (Part 1) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire chargesof machineries etc.,(Complete as per specifications and directions of the Engineer-in -charge. Ground Floor.
Measurements taken on	

	Ground Floor									
	Ladies toilet									
	Along long wall	Sqm	1	5.60		3.45	19.32			
		Sqm	1	4.35		3.45	15.01			
	Along short wall	Sqm	1	5.50		3.00	16.50			
		Sqm	6	1.20		3.45	24.84			
	corridor wall	Sqm	1	48.05		1.00	48.05			
		Sqm	2	1.50		1.00	3.00			
	Deductions									
	D3	Sqm	-8	0.75		2.10	-12.60			
	V	Sqm	-5	0.60		0.75	-2.25			

Assistant Executive Engineer

	Openings	Sqm	-3	3.00		1.00	-9.00			
						Total Executed Quantity	102.87			
						Schedule B Quantity	102.87			
						Now To be Paid Qty	102.87	918.80	94514.66	
Item No 25	Providing and constructing non-load bearing wall with solid concrete blocks of size 400X100X200 having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to I.S : 2185 (Part 1) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire chargesof machineries etc., for Complete as per specifications and directions of the Engineer-in -charge. First Floor									
Measurements taken on										
	First Floor									
	Gents toilet									
	Along long wall	Sqm	1	5.60		3.45	19.32			
	Along short wall	Sqm	1	5.50		3.45	18.98			
		Sqm	1	2.00		3.45	6.90			
		Sqm	3	1.20		3.45	12.42			
	corridor wall	Sqm	1	48.05		1.00	48.05			
		Sqm	2	1.50		1.00	3.00			
	Deductions									
	D3	Sqm	-5	0.75		2.10	-12.60			
	V	Sqm	-5	0.60		0.75	-2.25			
						Total Executed Quantity	93.82			
						Schedule B Quantity	93.82			
						Now To be Paid Qty	93.82	958.45	89921.78	
Item No 26	Providing and constructing non-load bearing wall with solid concrete blocks of size 400X100X200 having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to I.S : 2185 (Part 1) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire chargesof machineries etc.,. Complete as per specifications and directions of the Engineer-in -charge. Terrace									
Measurements taken on										
	Parapet wall	Sqm	1	119.70		1.00	119.70			
						Total Executed Quantity	119.70			
						Schedule B Quantity	119.70			
						Now To be Paid Qty	119.70	998.10	119472.57	
Item No 27	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing , Complete as per specifications and directions of the Engineer-in -charge. Ground Floor.									
Measurements taken on										
	External Plastering									
	Ground Floor									
	Along long direction	Sqm	1	38.10		3.60	137.16			
		Sqm	1	37.80		3.60	136.08			
		Sqm	2	5.90		3.60	42.48			
	Along Short direction	Sqm	1	21.80		3.60	78.48			
	Chejja									
	W1	Sqm	12	1.50	0.60		10.80			
	W1 sides	Sqm	24	0.60		0.10	1.44			
	W1 front	Sqm	12	1.50		0.10	1.80			
	corridor wall	Sqm	1	48.05		2.10	100.91			
		Sqm	2	1.50		2.10	6.30			

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರ ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ. ಬಿ.ಡಿ.ಎ. ಬೆಂಗಳೂರು-106

Contractor

Assistant Engineer

Assistant Executive Engineer

	Deductions									
	D1	Sqm	-6	1.20		2.10	-15.12			
	D3	Sqm	-8	0.75		2.10	-12.60			
	W1	Sqm	-24	1.50		1.50	-54.00			
	V	Sqm	-5	0.60		0.75	-2.25			
	Openings	Sqm	-3	3.00		1.00	-9.00			
						Total Executed Quantity	**422.48**			
						Schedule B Quantity	**422.48**			
						Now To be Paid Qty	**422.48**	**295.69**	**124921.63**	
Item No 28	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners. wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing Complete as per specifications and directions of the Engineer-in -charge. First Floor									
Measurements taken on										
	External Plastering									
	First Floor									
	Along long direction	Sqm	1	38.10		3.60	137.16			
		Sqm	1	37.80		3.60	136.08			
		Sqm	2	5.90		3.60	42.48			
	Along Short direction	Sqm	1	21.80		3.60	78.48			
	Chejja						0.00			
	W1	Sqm	12	1.50	0.60		10.80			
	W1 sides	Sqm	24	0.60		0.10	1.44			
	W1 front	Sqm	12	1.50		0.10	1.80			
	corridor wall	Sqm	1	48.05		2.10	100.91			
		Sqm	2	1.50		1.00	3.00			
	Deductions						0.00			
	D1	Sqm	-6	1.20		2.10	-15.12			
	D3	Sqm	-8	0.75		2.10	-12.60			
	W1	Sqm	-24	1.50		1.50	-54.00			
	V	Sqm	-5	0.60		0.75	-2.25			
						Total Executed Quantity	**428.18**			
						Schedule B Quantity	**428.18**			
						Now To be Paid Qty	**428.18**	**309.29**	**132430.25**	
Item No 29	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners. wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing. Complete as per specifications and directions of the Engineer-in -charge. Terrace									
Measurements taken on										
	External Plastering									
	Terrace Floor									
	Parapet wall	Sqm	1	119.70		2.10	251.37			
						Total Executed Quantity	**251.37**			
						Schedule B Quantity	**251.37**			
						Now To be Paid Qty	**251.37**	**322.88**	**81162.35**	

C&FC

ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಜಲಮಂಡಳಿ ಬಿಡುಗಡೆ ಉಪವಿಭಾಗ,
ಸಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Contractor

Assistant Engineer

Assistant Executive Engineer

Item No 34	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to ceiling including rounding off corners wherever required smooth rendering, : including Providing and removing scaffolding, including cost of materials, labour, curing for . Complete as per specifications and directions of the Engineer-in -charge.										
Measurements taken on											
	Ground Floor										
	Ceiling										
	Classroom(along long direction)	Sqm	4	7.00	5.50		154.00				
	Classroom(along short direction)	Sqm	2	7.00	5.50		77.00				
	Corridor	Sqm	1	31.90	1.50		47.85				
	Corridor near toilet	Sqm	1	5.70	1.30		7.41				
	Corridor(along shorter direction)	Sqm	1	14.30	1.50		21.45				
	Ladies toilet	Sqm	1	5.60	5.50		30.80				
	Beams										
	B1(class 1-4)	Sqm	4	6.70		0.90	24.12				
	B1(near class 1-4)	Sqm	6	1.30		0.90	7.02				
	B1(class 5-6)	Sqm	2	6.80		0.90	12.24				
	B1(near class 5-6)	Sqm	3	1.30		0.90	3.51				
	Corridar beam(near class 1-4)	Sqm	1	30.60		0.60	18.36				
	Corridar beam(near class 5-6)	Sqm	1	14.40		0.60	8.64				
	First Floor										
	Ceiling										
	Classroom(along long direction)	Sqm	4	7.00	5.50		154.00				
	Classroom(along short direction)	Sqm	2	7.00	5.50		77.00				
	Corridor	Sqm	1	31.90	1.50		47.85				
	Corridor near toilet	Sqm	1	5.70	1.30		7.41				
	Corridor(along shorter direction)	Sqm	1	14.30	1.50		21.45				
	Gents toilet	Sqm	1	5.60	5.50		30.80				
	Beams										
	B1(class 7-10)	Sqm	4	6.70		0.90	24.12				
	B1(near class 7-10)	Sqm	6	1.30		0.90	7.02				
	B1(class 11-12)	Sqm	2	6.80		0.90	12.24				
	B1(near class 11-12)	Sqm	3	1.30		0.90	3.51				
	Corridar beam(near class 7-10)	Sqm	1	30.60		0.60	18.36				
	Corridar beam(near class 11-12)	Sqm	1	14.40		0.60	8.64				
							Total Executed Quantity	**824.80**			
							Schedule B Quantity	**824.80**			
							Now To be Paid Qty	**824.80**	**254.91**	**210249.77**	

ಸಹಾಯಕ ಕಾರ್ಯನಿರ್ವಾಹಕ ಅಭಿಯಂತರರು
ಯಲಬುರ್ಗಾ ಉಪವಿಭಾಗ, ಯಲಬುರ್ಗಾ-೫೮
ಕೆ.ಬಿ.ಜೆ.ಎನ್.ಎಲ್, ಕೊಪ್ಪಳ

	Ground Floor									
	Ceiling									
	Classroom(along long direction)	Sqm	4	7.00	5.50		154.00			
	Classroom(along short direction)	Sqm	2	7.00	5.50		77.00			
	Corridor	Sqm	1	31.90	1.50		47.85			
	Corridor near toilet	Sqm	1	5.70	1.30		7.41			
	Corridor(along shorter direction)	Sqm	1	14.30	1.50		21.45			
	Ladies toilet	Sqm	1	5.60	5.50		30.80			
	Beams									
	B1(class 1-4)	Sqm	4	6.70		0.90	24.12			
	B1(near class 1-4)	Sqm	6	1.30		0.90	7.02			
	B1(class 5-6)	Sqm	2	6.80		0.90	12.24			
	B1(near class 5-6)	Sqm	3	1.30		0.90	3.51			
	Corridar beam(near class 1-4)	Sqm	1	30.60		0.60	18.36			
	Corridar beam(near class 5-6)	Sqm	1	14.40		0.60	8.64			
	First Floor									
	Ceiling									
	Classroom(along long direction)	Sqm	4	7.00	5.50		154.00			
	Classroom(along short direction)	Sqm	2	7.00	5.50		77.00			
	Corridor	Sqm	1	31.90	1.50		47.85			
	Corridor near toilet	Sqm	1	5.70	1.30		7.41			
	Corridor(along shorter direction)	Sqm	1	14.30	1.50		21.45			
	Gents toilet	Sqm	1	5.60	5.50		30.80			
	Beams									
	B1(class 7-10)	Sqm	4	6.70		0.90	24.12			
	B1(near class 7-10)	Sqm	6	1.30		0.90	7.02			
	B1(class 11-12)	Sqm	2	6.80		0.90	12.24			
	B1(near class 11-12)	Sqm	3	1.30		0.90	3.51			
	Corridar beam(near class 7-10)	Sqm	1	30.60		0.60	18.36			
	Corridar beam(near class 11-12)	Sqm	1	14.40		0.60	8.64			
						Total Executed Quantity	**1247.59**			
						Schedule B Quantity	**1247.59**			
						Now To be Paid Qty	**1247.59**	**88.37**	**110249.53**	

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Item No 36	Providing and applying painting in two coats with plastic emulsion paint of approved brand on wall surface to give an even approved shade after thoroughly brushing the surface, free from mortar drops and other foreign matter including preparing the surface even and sand paper smooth, cost of materials, labour. Complete as per specifications and directions of the Engineer-in -charge.									
Measurements taken on										
	Ground Floor									
	Classroom(1-4)									
	Along longer direction	Sqm	2	7.00		3.45	48.30			
	Along shorter direction	Sqm	2	5.50		3.45	37.95			
	Staircase wall									
	Along longer direction	Sqm	2	5.50		3.45	37.95			
	Along shorter direction	Sqm	2	3.15		3.45	21.74			

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಭಿಯಂತರರು
ಯಲಹಂಕ ಉಪನಗರ ಉಪವಿಭಾಗ,
ಬಿ.ಬಿ.ಎಂ.ಪಿ. ಬೆಂಗಳೂರು-106

Contractor

Assistant Engineer

Assistant Executive Engineer

Item No 41	Providing and laying Hassan Green / River Pink granite flooring for staircase, treads and rises using pre polished 20 mm thick water cut green Granite slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing , cutting 3 line grooves not more than 2 mm wide for antiskidding, including cost of all materials,mortar,labour,curing etc.,Complete as per specifications and directions of the Engineer-in - charge. Ground Floor									
Measurements taken on										
	Ground Floor									
	Tread	Sqm	24	1.50	0.30		10.80			
	Risers	Sqm	25	1.50		0.15	5.63			
	Landing	Sqm	1	3.15	1.30		4.10			
						Total Executed Quantity	**20.52**			
						Schedule B Quantity	**20.52**			
						Now To be Paid Qty	**20.52**	5036.29	103390.91	
Item No 42	Providing and laying Hassan Green / River Pink granite flooring for staircase, treads and rises using pre polished 20 mm thick water cut green Granite slab laid over existing cement concrete bed in CM 1:3, average 20mm thick including full rounding for nosing , cutting 3 line grooves not more than 2 mm wide for antiskidding, including cost of all materials,mortar,labour,curing etc.Complete as per specifications and directions of the Engineer-in - charge. First floor.									
Measurements taken on										
	First Floor									
	Tread	Sqm	24	1.50	0.30		10.80			
	Risers	Sqm	25	1.50		0.15	5.63			
	Landing	Sqm	1	3.15	1.30		4.10			
						Total Executed Quantity	**20.52**			
						Schedule B Quantity	**20.52**			
						Now To be Paid Qty	**20.52**	5036.29	103390.91	
Item No 43	Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner topping , under layer of 35mm thick m-15 cement concrete using broken granite metal of 20mm and down size, and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt) , including finishing cost of materials, labour, curing. Complete as per specifications and directions of the Engineer-in -charge. Ground Floor									
		Sqm								
	Vide Total executed Quantity from premeasurement Page no.						**356.47**			
						Total Executed Quantity	**356.47**			
						Schedule B Quantity	**356.47**			
						Now To be Paid Qty	**356.47**	**714.87**	**254826.13**	
Item No 44	Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner topping , under layer of 35mm thick m-15 cement concrete using broken granite metal of 20mm and down size, and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt) , including finishing cost of materials, labour, curing. Complete as per specifications and directions of the Engineer-in -charge. First floor.									
		Sqm								
	Vide Total executed Quantity from premeasurement Page no.						**338.51**			
						Total Executed Quantity	**338.51**			
						Schedule B Quantity	**338.51**			
						Now To be Paid Qty	**338.51**	**717.14**	**242759.06**	

Assistant Engineer

Assistant Executive Engineer

	Sqm	2	1.20		2.10	5.04			
Classrooms									
Along longer direction	Sqm	2	35.00		0.15	10.50			
	Sqm	10	5.50		0.15	8.25			
Along shorter direction	Sqm	2	14.00		0.15	4.20			
	Sqm	4	5.50		0.15	3.30			
Deductions						0.00			
D1	Sqm	-6	1.20		0.15	-1.08			
D3	Sqm	-8	0.75		2.10	-12.60			
					Total Executed Quantity	125.55			
					Schedule B Quantity	125.55			
					Now To be Paid Qty	125.55	1848.39	232133.16	

Item No 52	Providing skirting, dado, rises of steps with colour glazed tiles 30X60 cms 6mm thick with border of size 30 x 10 cms on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour. Complete as per specifications and directions of the Engineer-in -charge. First floor.

Measurements taken on										
First Floor										
Gents toilet										
Along longer direction	Sqm	2	5.60		2.10	23.52			
Along shorter direction	Sqm	2	4.30		2.10	18.06			
	Sqm	2	2.00		2.10	8.40			
WC(Along longer direction)	Sqm	6	1.35		2.10	17.01			
	Sqm	2	1.25		2.10	5.25			
WC(Along Shorter direction)	Sqm	8	1.20		2.10	20.16			
Classrooms									
Along longer direction	Sqm	2	35.00		0.15	10.50			
	Sqm	10	5.50		0.15	8.25			
Along shorter direction	Sqm	2	14.00		0.15	4.20			
	Sqm	4	5.50		0.15	3.30			
Deductions									
D1	Sqm	-6	1.20		0.15	-1.08			
D3	Sqm	-5	0.75		2.10	-7.88			
					Total Executed Quantity	109.70			
					Schedule B Quantity	109.70			
					Now To be Paid Qty	109.70	1851.19	203066.29	

Item No 53	Providing half nosing for 20mm thick granite slab using required machinery including cost and conveyance of all materials, labour for all items of work, HOM of equipment etc , Complete as per specifications and directions of the Engineer-in -charge. Ground Floor

Measurements taken on										
Ground Floor										
Nosing										
Classrooms										
Along longer direction	m	2	35.00			70.00			
	m	10	5.50			55.00			
Along shorter direction	m	2	14.00			28.00			
	m	4	5.50			22.00			

Assistant Engineer

Assistant Executive Engineer

Item No 63	Providing and fixing factory made single leaf rigid GRP Sandwich composite door shutter of 40 mm thick, laminated with two GRP skins with wood grain finish, fabricated using U.V-stabilized Isopthalic Gelcoat and one layer of 450 gns E-Glass Chopped Strand Mat (CSM), impregnated with orthopthalic polyester resin. The thickness of the skins shall not be less than 1.5mm. Expanded Polystyrene (EPS) structural foam panel of 37mm thickness and a density of 20 Kg/m3 shall be used as core material. Wooden reinforcements made of Seasoned Salwood block of cross section not lessthan 36mmx32mmand also necessary salwood reinforcements for fixing the metal fittings such as tower bolts, aldrops, handles, etc. shall be provided. A structural adhesive compatible with EPS foam shall be used for bonding the core material, the salwood reinforement and the skins. The material and process for manufacturing the door shutters shall confirm to RV-TIFAC Composites Design Centre Standards and specifications and the door shutters tested in confiramation to IS 4020-1994. The finish of shutter will be plain coulur White/IVORY/Beige/Light Grey or any other colour using high quality pigments. Excluding cost of fixtures and inclusive of supply of shutters to respective work spot . Complete as per specifications and directions of the Engineer-in -charge. Ground Floor										
Measurements taken on											
		Ground Floor									
		D3	Sqm	8	0.75		2.10	12.60			
							Total Executed Quantity	**12.60**			
							Schedule B Quantity	**12.60**			
							Now To be Paid Qty	**12.60**	**4305.10**	**54244.26**	
Item No 64	Providing and fixing factory made single leaf rigid GRP Sandwich composite door shutter of 40 mm thick, laminated with two GRP skins with wood grain finish, fabricated using U.V-stabilized Isopthalic Gelcoat and one layer of 450 gns E-Glass Chopped Strand Mat (CSM), impregnated with orthopthalic polyester resin. The thickness of the skins shall not be less than 1.5mm. Expanded Polystyrene (EPS) structural foam panel of 37mm thickness and a density of 20 Kg/m3 shall be used as core material. Wooden reinforcements made of Seasoned Salwood block of cross section not lessthan 36mmx32mmand also necessary salwood reinforcements for fixing the metal fittings such as tower bolts, aldrops, handles, etc. shall be provided. A structural adhesive compatible with EPS foam shall be used for bonding the core material, the salwood reinforement and the skins. The material and process for manufacturing the door shutters shall confirm to RV-TIFAC Composites Design Centre Standards and specifications and the door shutters tested in confiramation to IS 4020-1994. The finish of shutter will be plain coulur White/IVORY/Beige/Light Grey or any other colour using high quality pigments. Excluding cost of fixtures and inclusive of supply of shutters to respective work spot for FIRST FLOOR. Complete as per specifications and directions of the Engineer-in -charge.										
Measurements taken on											
		First Floor									
		D3	Sqm	5	0.75		2.10	7.88			
							Total Executed Quantity	**7.88**			
							Schedule B Quantity	**7.88**			
							Now To be Paid Qty	**7.88**	**4309.63**	**33938.34**	
Item No 65	Providing and applying painting two coats (excluding priming coat) on new wood surface and / or wood based surface with enamel paint to give an even shade, cleaning the surface of all dirt, dust and foreign matter, sand papering including cost of materials, labour, complete as per specifications.Complete as per specifications and directions of the Engineer-in -charge.										
Measurements taken on											
		Ground Floor									
		Doors									
		D1	Sqm	6	1.20		2.10	15.12			
		First Floor									
		Doors									
		D1	Sqm	6	1.20		2.10	15.12			
							Total Executed Quantity	**30.24**			
							Schedule B Quantity	**30.24**			
							Now To be Paid Qty	**30.24**	**109.89**	**3323.07**	

Assistant Engineer

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Assistant Executive Engineer

Item No 66	Providing & fixing of 3 Track - 2 Panel Sliding Windows made out of multi chambered UPVC(Matching to RAL-9016) sections and with minimum TiO2(Titanium Dioxide) at 6PHR with TPV(Thermo Plastic Vulcanized) and lead free, gaskets having isolated drainage and reinforced with Galvanized Iron profile through-out the window Frame. The outer frame having a overall size of 108 mm width X 45 mm height with reinforcement of 1 mm thickness and sash with overall size of 39 mm x 75 mm with GI reinforcement of 2 mm and mesh sash of size 30mm.Windows shall be provided with 5mm plain float glass, standard hardware and single point locking system with touch lock. Wall thickness of frame and sash shall be of 2mm -2.5mm. Maximum possible size -2419mm x 21119 mm. Complete as per specifications and directions of the Engineer-in -charge.									
Measurements taken on										
	Ground floor									
	W1	Sqm	24	1.50		1.50	54.00			
	First floor									
	W1	Sqm	24	1.50		1.50	54.00			
						Total Executed Quantity	**108.00**			
						Schedule B Quantity	**108.00**			
						Now To be Paid Qty	**108.00**	**5913.84**	**638694.72**	
Item No 67	Providing & of Fixed Louvered Ventilator made out of multi chambered UPVC(Matching to RAL-9016) sections with Minimum TiO2(Titanium Dioxide) at 6PHR with TPV(Thermo Plastic Vulcanized) and lead free with gaskets-grey colour having isolated drainage and reinforced with Galvanized Iron profiles through out the Ventilator Frame. The frame having a overall size of 39mm x 39mm with GI reinforcement of 1 mm thickness. Louver clip in Aluminium(powder coated in white) will be used on the frame along with plastic parts for fixing the4mm pin head glass. Wall thickness of frame shall be 2mm. Maximum possible size-1000mm X 1000mm. Complete as per specifications and directions of the Engineer-in -charge.									
Measurements taken on										
	Ground Floor									
	V	Sqm	5	0.60		0.75	2.25			
	First floor									
	V	Sqm	5	0.60		0.75	2.25			
						Total Executed Quantity	**4.50**			
						Schedule B Quantity	**4.50**			
						Now To be Paid Qty	**4.50**	**4114.77**	**18516.47**	
Item No 68	Providing and fixing M.S.grill work for windows and ventilators weighing 21kg/sqm using M.S. flats, or M.S. square rods, or combination of M.S. flats and square rods as per approve design, drawing including cutting steel sections and welding the same to required pattern with a coat of red lead primer, cost of materials, fixtures, labour and HOM of machinery for GROUND FLOOR. Complete as per specifications and directions of the Engineer-in -charge. First Floor									
Measurements taken on										
	Ground Floor									
	W1	Kg	24			47.25	1134.00			
			21kg per sqm 1.5*1.5*21=47.25							
	V	Kg	5			9.45	47.25			
			21kg per sqm 0.6*0.75*21=9.45							
						Total Executed Quantity	**1181.25**			
						Schedule B Quantity	**1181.25**			
						Now To be Paid Qty	**1181.25**	**107.63**	**127137.94**	

Contractor

Assistant Engineer

Assistant Executive Engineer

Item No 72	Providing and fixing Stainless steel staircase raling as per Chief Architect Drawing No. 11520/ HRSC with hand rail 50mm dia 16 guage hollow pipe welded to vertical hollow 50mm dia pipe of 16 guage, stainless steel vertical pipe spaced at 1.20m regular intervals, and 5 Nos of 25mm dia. Stainless steel hollow horizontal pipe are welded to vertical 50mm dia hollow pipe. The entire assembly is fixed to staircase concrete by using expansion bolts by drilling concrete etc., complete including cost of materials, labour, HOM of machineries and electrical charges, etc.,Complete as per specifications and directions of the Engineer-in -charge. First Floor										
Measurements taken on											
	First Floor										
	Flight 1	Sqm	1	4.09		1.00	4.09				
	Flight 2	Sqm	1	3.75		1.00	3.75				
						Total Executed Quantity	7.84				
						Schedule B Quantity	7.84				
						Now To be Paid Qty	7.84	6828.14	53532.38		
Item No 73	Construction of Embankment with Material Gravel/ Murrum. KSRRB M300-5: Construction of embankment with approved material Gravel/Murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement Table 300- 2 complete as per specifications.(Including cost of gravel / murrum, watering charges & compaction by vibratory roller to 95% of proctors density) MORTH.Complete as per specifications and directions of the Engineer-in -charge.										
Measurements taken on											
	Corridor	Cum	1	37.50	0.90	0.45	15.19				
	Corridor	Cum	1	14.00	0.90	0.45	5.67				
						Total Executed Quantity	20.86				
						Schedule B Quantity	20.86				
						Now To be Paid Qty	20.86	368.50	7679.73		
Item No 74	Providing and fixing M.S.Grill over existing compound wall as per, using 16mm x 16mm M.S.Square rod at 150mm c/c spacing and 6mm x 40mm M.S. flats at horizontal and 6mm x12mm M.S. flat for ornamental design and providing shop edge design at the vertex of every vertical rods, including welding, grinding wherever necessary. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., Complete as per specifications and directions of the Engineer-in -charge.										
Measurements taken on											
	First Floor										
	For Corridor Wall	Sqm	1	48.05		2.15	103.31				
		Sqm	2	1.50		2.00	6.00				
						Total Executed Quantity	109.31				
						Schedule B Quantity	109.31				
						Now To be Paid Qty	109.31	6089.50	665622.56		
									Sub Total	9174009.00	
									GST Charges (12% of estimated cost)	1100881.08	
									Grand Total Amount	10274890.07	

Assistant Engineer

Assistant Executive Engi

Contractor